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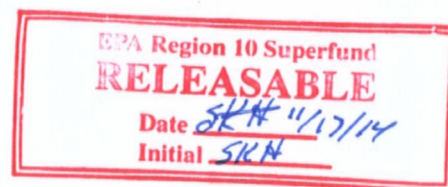
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CONFIDENTIAL MEMORANDUM



DATE: April 12, 2010

TO: Linda Costello, START-3 Project Manager, E & E, Seattle, Washington

FROM: Andrew Maguire, GIS Analyst, E & E, Seattle, Washington

SUBJECT: Sensitive Environments and National Wetlands Inventory

REF: Contract Number EP-S7-06-02
Technical Direction Document: 10-03-0008

Below is the Global Information System (GIS) analysis of human and environmental targets associated with the Armstrong World Industries site, which is located in St. Helens, Oregon. The coordinates used to determine these calculations are:

- Latitude: 45° 50' 20.76"North
- Longitude: 122° 49' 6.96"West

This location is near the center of the site.

The following references were used to generate this information.

- 30 X 60 minute topographic and National Wetland Inventory Quadrangle for Vancouver and Mount Saint Helens, Oregon.

The site is adjacent to Scappoose Bay. Once surface water enters Scappoose Bay, it flows west for 0.72 mile to the confluence of the Multnomah Channel which flows for 1.84 miles to its confluence with the Columbia River. The 15-mile target distance limit concludes 12.44 miles downstream in the Columbia River.

Wetland frontage in miles by water body is as follows:

Water Body Name	Wetlands Frontage (miles)
Scappoose Bay	1.43
Multnomah Channel	1.32
Columbia River	4.99

The nearest wetland is immediately adjacent to the site.

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Sensitive habitat species information by water body is as follows:

Water Body Name	Species	Status
Columbia River	Lower Columbia River ESU Chinook Salmon	Federal-Threatened
	Lower Columbia River ESU Chum Salmon	Federal-Threatened
	Lower Columbia River ESU Coho Salmon	Federal-Threatened
	Lower Columbia River ESU Steelhead	Federal-Threatened
	Bull Trout	Federal-Threatened